

# Adam H. Trotta

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## PROFILE

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I am a software engineer that loves solving problems with code! I recently built Bastion, a scalable and customizable backend system deployed with AWS using Docker containers. Previously, I conducted research in organic chemistry, leading to several peer-reviewed publications and a book chapter.

## EXPERIENCE

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### Co-Creator, Software Engineer, *Bastion*

2022

- Designed and created Bastion ([bastion-baas.github.io](https://bastion-baas.github.io) 🌐), a scalable, open-source Backend-as-a-Service that is deployed to the cloud with AWS
- Collaborated with a fully remote team using GitHub and Notion to develop Bastion
- Containerized and deployed backend applications built with Express and MongoDB that provide database operations, user authentication, and file storage
- Implemented Bastion's Cloud Code functions using AWS Lambda
- Enabled Bastion to support multiple backends by using AWS ECS for container orchestration
- Built an admin dashboard using React/Redux that manages backend deployment, custom Cloud Code functions, users, files, and database collections
- Automated Bastion cloud deployment using AWS CloudFormation
- Developed Bastion SDK, a JavaScript library facilitating communication between Bastion and client frontend apps
- Authored the technical case study detailing Bastion's design and implementation

### Full-Stack Web Developer

2020 – 2022

- RequestPool: A Node.js application built with Express, Mongo, and PostgreSQL to capture and monitor webhooks
- Mellow: A Node.js kanban board application built using Express, Mongo, and React/Redux
- Todos: A todo tracking app built with vanilla JavaScript on the frontend, and Node.js/Express for the backend

### Postdoctoral Research Fellow, *Harvard University*

2018 – 2020

- Discovered methods for precisely synthesizing complex carbohydrates
- Mentored graduate students in organic chemistry research
- Wrote and edited research articles and grant applications

## SKILLS

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### Languages

JavaScript, Ruby, HTML, CSS, Go, SQL, Python, Bash

### Libraries & Frameworks

Express, Mongoose, React, Redux, Jest, jQuery

### AWS Cloud Technologies

CloudFormation, ECS, Fargate, Lambda, S3, ALB, Cloud Map, EFS, IAM

### Technologies

Git, GitHub, Docker, MongoDB, PostgreSQL, Linux, REST APIs

## EDUCATION

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### Software Development, *Launch School* 🌐

2020 – 2022

Multi-year full-stack software engineering curriculum using mastery-based learning

### Ph.D. Organic Chemistry, *Weill Cornell Graduate School*

2013 – 2018

Developed an efficient synthetic strategy for antibacterial compounds

### M.A. Organic Chemistry, *Columbia University*

2012 – 2013

Conducted research in natural product total synthesis | GPA: 4.00

### B.S. Chemistry, *Tufts University*

2008 – 2012

Completed a Senior Honors Thesis on carbohydrate synthesis | GPA: 3.80 | *Summa Cum Laude*